

-1- (JAPIO)  
ACCESSION NUMBER  
TITLE  
PATENT APPLICANT  
INVENTORS  
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APPLICATION DETAILS  
SOURCE

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ALKALINE ZINC BATTERY  
(2000353) TOSHIBA BATTERY CO LTD  
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INT'L PATENT CLASS  
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Heat Treating); 12.3 (METALS--Alloys)

ABSTRACT

PURPOSE: To obtain an alkaline zinc battery with a good storage characteristic in which only a slight amount of hydrogen gas is generated even when the negative zinc alloy powder is used without amalgamating it by preparing the powder from a quaternary alloy containing proper amounts of lead, gallium and indium and adjusting the bulk specific gravity of the powder to at least 3.5g.cm-(sup 3).  
CONSTITUTION: A pulverized zinc alloy powder having a bulk specific gravity of at least 3.5g.cm-(sup 3) and either a given grain size or a given mean particle diameter, is prepared by granulating a zinc alloy prepared by combining highly pure zinc with proper amounts of lead, gallium and indium. And, the thus prepared zinc alloy powder is used as a negative active material for an alkaline battery. By the means mentioned above, even when the negative active material is used without amalgamating it, generation of hydrogen gas in the battery can be sufficiently suppressed without deteriorating the discharge characteristic of the battery.